SMT Channel Geometry Check Peter Hamel and Tom Trippe

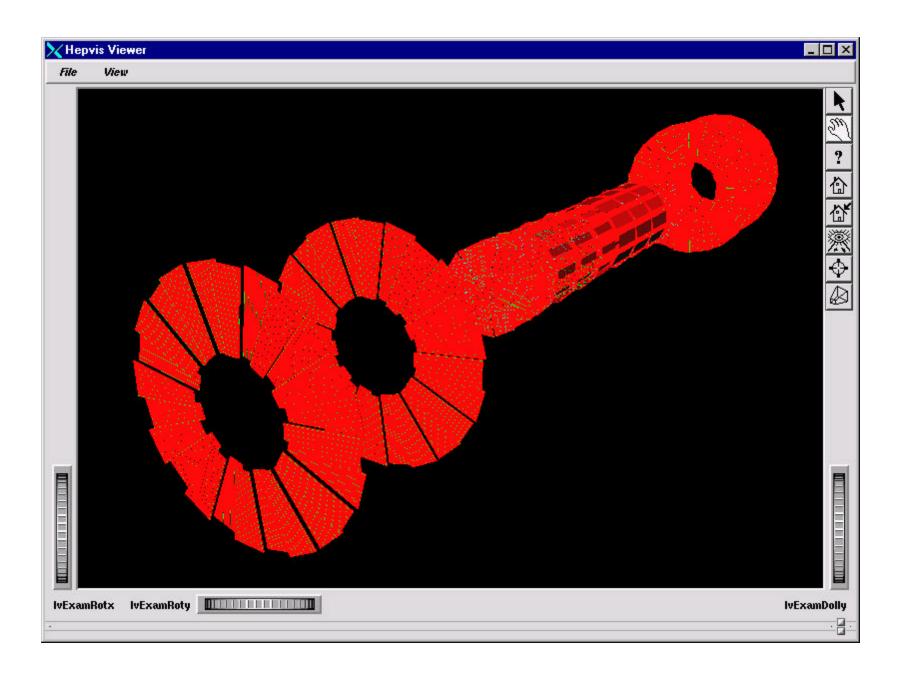
- Pictures from package smtGeomDisplay
- Uses HEPVis ladders (stereo, dbl 90, single)
- Uses Peter's HEPVis Wedges (double, single)
- Command line interface to choose which parts to display
- Sample strips loaded
 - strips 1-5, 100, 200,..., last. p-side strips green, n-side strips blue.
- Pictures are for Si geometry and rcp files as of t00.55.00
 - Used in current GEANT and Reco
- Compared GEANT/Reco geometry with real DØ detector
 - Most strip numbering is wrong in GEANT/Reco

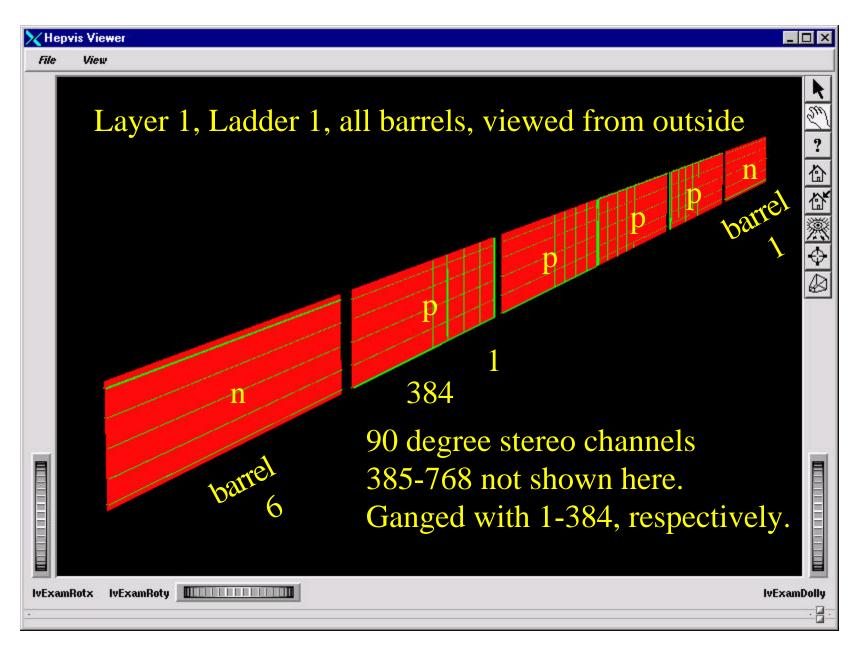
GEANT/Reco vs DØ strip numbering

Ladder edge ($\pm x$, $\pm z$ in ladder frame) of strip 1 and channel 0

Ladder type	DØ	DØGSTAR	DØ
Ladder side	strip 1	strip 1	channel 0
Narrow 1 sided			
p-side (axial)	+x	-X	-X
Narrow 2 sided			
p-side (axial)	+x	-X	+x
n-side (90°)	-Z	+z	+z
Wide 2 sided, +2°			
p-side (axial)	+x	-X	+x
n-side (+2°)	+x	+x	+x
Wide 2 sided, -2°			
p-side (axial)	+x	Not in	+x
n-side (-2°)	+x	Not in	+x

- DØGSTAR/Reco strip 1 edge wrong almost everywhere
- Needs coordinated GEANT, Reco offline geometry fixes





Confusion: DØGSTAR axial strips, DØ 90° strips

